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ISO/IEC 17025:2017 Accredited Laboratory
NVLAP Code: 200826-0

June 1st, 2023

Riot Glass
17941 Brookshire Lane
Huntington Beach, CA 93647
ATTN: Brad Campbell

Dear Mr. Campbell:

In accordance with your instructions, Oregon Ballistic Laboratories conducted Ballistic Resistance testing (V_0) on one sample.

The sample was tested in accordance with UL 752 Level 1 (modified) – Spall Allowed in an indoor range with the muzzle of the test barrel mounted 16.5 feet from the target and positioned to produce 0-degree obliquity impacts. Four Oehler model 57 infrared velocity light screens, in conjunction with two HP 5315A time-based frequency counters, were placed such that projectile velocity was measured 8.25 feet from the target. Penetrations were determined by examination of a piece of 1/8" corrugated cardboard witness mounted 18 inches behind and parallel to the test sample. Results for all testing performed for this purpose are summarized in the following table.

Test Sample				Ballistic Threat				Results	
OBL No.:	Model No.:	Weight (lbs.)	Average Thickness (in.)	Projectile	Shots	Velocity (fps)		Penetrations	Pass/Fail
						Min.	Max.		
35328	RG1	7.56	0.737	9mm 124gr. FMJ	3	1244	1267	0	<u>PASS</u>

*Data shown in the table represents fair impacts only.

This report pertains only to the samples tested and may not be modified or edited in any way. This report may not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any federal government agency. Samples will be maintained at Oregon Ballistic Laboratories for 30 days and discarded unless other instructions are received. If you have any further questions or concerns, don't hesitate to contact us.

Darius Nuttbrock
Ballistic Test Director
Oregon Ballistic Laboratories
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Contributors to measurement of uncertainty:

Velocity- tape measure used for screen spacing, Measurement of uncertainty of frequency counters

BALLISTIC RESISTANCE TEST - V₀

Customer: Riot Glass
 OBL ID#: 35328
 Date Rcv'd: 4/27/2023
 Test Date: 5/10/2023
 Purchase Order:

TEST SAMPLE

Model No.: RG1	Size (in.): 12 x 12
Sample No.: 1	Weight (lb.): 7.56
Lot No.: N/A	Thickness: 0.732 0.740 0.734 0.740
Plies: N/A	Avg. Thk. (in): 0.737
Description: Ballistic Transparency	

RANGE SET-UP

Range to Target: 16.5 ft.	Range #: 3	Pre Test:	CLAY CALIBRATION NOT REQUIRED
Screen Dist. Vel. 1 (ft.): 5	Temperature: 71.9 °F	Clay Drops (mm):	
Screen Dist. Vel. 2 (ft.): 4	Bar. Pressure: 29.81 in. Hg	Drop Avg (mm):	
Screen 4 to target (ft): N/A	Rel. Humidity: 44.0 %	Clay Temp °F:	
Primary Vel. Location: 8.25 ft. from target	Sample Temp. Amb. °F	Clay Box #:	
Striking Velocity: No	Recorder: Jerhemi Stone	Post Test:	
Target to Witness: 18 in.	Gunner: Nathan Myers	Clay Drops (mm):	
Witness Panel: 1/8" Corr. Cardboard		Drop Avg (mm):	
Backing Material: N/A		Clay Temp °F:	
Obliquity: 0 Degrees			
Barrel: 9mm Luger/1:10/10"			

AMMUNITION

Projectile: 9mm 124gr. FMJ Lot #23558 Powder: Accurate No. 2

STANDARDS / PROCEDURES

UL 752 Level 1 (mod) - Spall Allowed Required Velocity: 1175 fps + 117 fps

SHOT NO.	PROJECTILE WT. (gr.)	POWDER WT. (gr.)	TIME 1 μ s (10 ⁻⁶)	TIME 2 μ s (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	124.5	4.9	3977	3175	1257	1260	1259	P	0°		Spall Complete
2	123.8	4.8	3952	3155	1265	1268	1267	P	0°		Spall Complete
3	123.6	4.8	4024	3212	1243	1245	1244	P	0°		Spall Complete

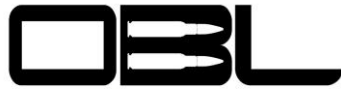
REMARKS:

P=Partial Penetration
 C=Complete Penetration
 UH=Unfair Hit
 Projectile Yaw Check: <5° for all velocity shots

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:



OREGON BALLISTIC LABORATORIES

OBL #35328 – Pre Test



OBL #35328 – Post Test

